Your

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Getting Employes Interested.

Every 16 Seconds Some Workman Is Injured in Some Peaceful Pursuit in the Country - Eighty Percent of the Accidents Can Be Avoided if Public and Employes Will Help - 25,000 Children Killed Playing on Railroads.

By Edward L. Tinker, "Safety First" Supervisor, E. P. & S. W. Ry.

Off. laws sent safeguards around the birds of the air and the fish in the seas; dumb oysters are watched with infinite care; the federal government through its various bureaus one taken up the work of the protection of our trees and forests and bagging the boll weevil in order that cotton may grow; our coal lands in far-naway Aiaska are bring protected from the greedy speculator, set the protection of our great army of workmen against unnecessary death and accident has lust begun.

And it is that great army of workmen who have made us what we are today, one of the foremest nations of the world, and we must depend on them for any future progress that we may make.

W. Ry.

be prevented by the employers of instanting safeguards on all dangerous machinery and making the working conditions of the men as safe and santinry as possible, but the remaining 60 percent is absolutely up to the workmen thing, some carelessness, some negligence on the part of the workmen killed or injured, or of some negligence on the part of the workmen killed or injured, or of some negligence on the part of the workmen killed or injured, or of some negligence or the part of the workmen killed or injured, or of some negligence or the part of the workmen killed or injured, or of some negligence or the part of the workmen killed or injured, or of some negligence or the part of the workmen killed or injured, or of some negligence or the part of the workmen killed or injured, or of some negligence or the part of the workmen killed or injured, or of some negligence or the part of the workmen themselves. It is due to the working a killed or injured, or of some negligence or the part of the workmen themselves. It is due to the working a killed or injured, or of some negligence or the part of the working a killed or injured, or of some negligence or the part of the working a killed or injured, or of some negligence or the part of the working a killed or injured, or of some negligence or the part of the working a killed or injured.

As an illustratio

Great Beath Bute by Accident, Do you realize that every 18 minutes of every hour of every day of the 265 lays of the year, there is a workman in

The source know that this amounts to a some the commerce of any method, and organization. That can cut down this horrible list of ensualties. The only industry that has been the curse of all these accidents because they are the only industry that has been the cutse of all these accidents have been talligated and a screet down this horrible list of ensualties.

The safety organization accomplishes its results in two ways. It is the man on the lob who knows the dangers of his employment; the safety organization the library and subject of any organization and subject of ensualties and blind?

When you do you begin to see the importance of any method, and organization. That can cut down this horrible list of ensualties. Up to dais the railroads have had to stand the curse of all these accidents because they are the only industry that has been forced to make reports to one central authority, the latergiate Commerce Containation. However, this is unfair because only one-tenth of the Areidenia Mostly Preventable.

It is only recently that the causes of accidents have been tallulated and and a suffering of the world. At the Do you know that this amounts to

Safety organization throughout the United States has cut down the number of accidents, the number of widows and orphans and a great deal of the suffering of the world. At the same time, it has nut money in the pockets of the employers because they are the otes who just the cost of these accidents. Accidenta Mostly Fraventiality.

It is only recently that the causes of accidents have been tabulated and a scientific study made of them. These figures show that, roughly speaking 80 percent of this energous number of accidents is absolutely preventable; that of this special 20 percent can be such as a special section.

One of the surface of the employers because they are the ones who pay the cost of these accidents.

In the Southwest the safety idea has

Country Girl Now a Princess;

With \$20,000,000, Was Lonely

REPRODUCTION OF A RECENT PALITING OF MRS, JOSEPH STICKNEY

was in America, six months ago.

Boston, Mass., July 12.-Folk in Waltham, Mass., hearing about the recent and unexpected marriage of the former Mrs. Joseph Stickney, originally Carrie Foster, a typical country girl of Waltham, to the prince de Faucigny-Lucinge, recall a surprising statement Mrs. Stickney made to one of her old home friends at her beautiful mansion, on Fifth avenue, New York, when she

Mrs. Stickney, in referring to her deceased husband, said: "Joe left me

Carrie Foster was 22, just out of Lazell seminary, where she first met Joe Stickney, the wealthy mine operator and botel owner. He was 50 years of

The marriage was a happy one, Stickney dividing his time equally be-

tween his wife and his business. His fortune grew by leaps and bounds, and when he died, in 1807, he left his beautiful widow \$20,000,000. Among the

prominent americans who have been mentioned from time to time as suitors

for the hand of Mrs. Stickney were: Frank Hitchcock, former pastmaster genscul; John 'la ve's the diplomat, and Louis Bruiguierre, the San Francisco

every material comfort a woman could desire. But now I am lonesome. If I ever marry again, it will be for companionship."

age. This was in 1896. Two years later they were married.

ucating their employes to avoid ac-

Southwestern's Work. Now, let me tell you what we are loing on the El Paso & Southwestern, or "Safety First." for "Safety First."

We have an organization as a board of last appeal, composed of all higher officials of the rong, then a committee of men on each division, composed of men from the section foremen up to the superintendent and a board in each shop. These men meet and discuss plans for safety and then they are put into effect. If the superintendent, can put into effect the plans suggested, he does so; if not, he passes it up to the board of last resort, where it is passed upon.

Making Things Safe.

We have spent as high as \$10,000 in widening one cut because our board of safety on the division recommended it. We have re-equipped 100 cars with a different syile brake because the board recommended it. We have moved ties and poles and changed switches because the board of employes recommended changes for more safety. It is the man on the job who knows the dangers and we invite singlestions from him. At every terminal we have postal cards and mail boxes where the men are asked to write suggestions for safety, to be forwarded to the superintendent and by him presented to the safety board. At these board meetings, the section man has the same say as the superintendent and his suggestions are given as much consideration.

Getting the Men to Think.

Accidents Can He Prevented.

As an illustration of what the safety organization can do, many of the railroads have cut down their accidents, both fatal and otherwise, 50 percent. The Pennsylvania railroad shops employ 25,000 men and they have cut down their accidents 63 percent: Mr. Smith, superintendent of the Illinois Steel company, one of the subsidiary companies of the United States Steel corporation, told me that last month his payment for personal injuries amounted to only \$42 and that he had a payroll of four thousand men, ignorant foreigners many of them, employed in one of the most dangerous industries. the superintendent and his suggestions are given as much consideration.

Getting the Men to Think.
Our road issues builetins following each arcident and we tell how the accident happened and how it could be avoided. To our Mexican section hands who cannot read English, we send pictures of accidents and how they might have been avoided.

I have a number of cigars bearing the label "Safety First," which I distribute among our employes wherever I go. They read the label, talk about the cigars and then talk about the safety plan.

on our pay checks each month we have some new motto relative to safety. One month the motto read: "It is better to be careful than crippled." We try each mouth to bring out some idea that will direct the attention of all employes towards the idea of preventing accidents.

Southwestern Employes. Southwestern Employes.

Because We have the best set of employes of any railroad in the United States, they are backing the Safety Organization. The reason we have the best men is that they are treated fairly and are well paid. For these reasons our men stay with us and the public is not subjected to the dangers of a

Streen man.

A Herote Trainman.

While on the subject of our employes and their work in behalf of safets, I cannot refrain from mentioning the heroic act of P. W. Ankerson. Therder in the union depot yards at El Paso, recently, when he saved a passenger from being run over by one of our trains. W. J. Feidt, of Fayette-ville, Ark, the passenger had come in over the S. P. and was transferring a dog from the S. F. baggage car to one of the cars of our road, when the dog suddenly lerked him across a track on which one of our engines was backing equipment. Ankerson saw the predicament of the man, who apparently was so absorbed with the dog that he did not see the approaching cars, and quitting his own work, leaped outo the track and dragged a bit by being.

The other day a crippled boy passed to the real and the provent him being crushed.

The other day a crippled boy passed.

The Public's Loss.

Now a Word about the public. If the public will join with us in the work,

# The Personal Account

T HIS bank especially solicits your personal account. Every man of affairs will find it convenient to keep a personal deposit separate from the bank account of his firm or business. This account can be utilized to keep separate

the money used for private account, household expenses, etc. If you have not such an arrangement, we suggest that you open an account with us, and pay with personal checks drawn on this bank.

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many limbs preserved. Statistics show that 181,378 people have been killed or injured upon railroads while trespassing. This does not mean that they were tramps, but all sorts of prople, killed upon railroad right-of-ways. Many were walking along the roads to take a shorter cut to their homes, many were hopping trains to ride a short distance, many were children

the track and dragged the man off just in time to prevent him being crushed. The man was bruised a bit by being pulled back so quickly over the slast, but his injuries were only silight and be was very thankful for his salvation. Hostier James showed much presence of mind in stepping the equipment as he saw Ankerson make a rush for the passenger and realized the peril of the two men.

I am proud to be in the same service with a man of that type.

The reason I am teiling you this is that the public has a vital interest in the kind of man we employ and in the Safety Organization, because it means to every person traveling on our system, greater safety, greater regularity of train service, and it means also that you will receive your freight in better condition, and quicker, and will not have so many freight loss claims to adjust.

The Public's Less. some high position in life; his missing leg was a handleap to him in the battle of life. Mothers and fathers, if you do not want this to happen to your children, keep them from playing around rallroad tracks.

Don'ts For Children.

Don'ts For Children.

The legical properties of the life in the properties of the life in the life

# Success Builder

Should deposit his receipts in a bank and make his disbursements, except the small ones, by check.

That is the orderly, systematic way that betokens the proper handling of funds and that bears the promise of growing balances.

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relative to the railroads, all directed to the child mind; 1. Never cross the tracks by night or

by day, Without stopping to listen and look 2. Never walk along the ralirond ries-You can't always trust your ears and eyes.

3. Never hop on a freight, for nothing quite heals The wound received under grinding

wheels.

4. Never, on a hot or a sunny day,
Sit beneath hox cars to rest or play.

5. Never crawl under a car of freight
When the crossing's blocked—play
safe, and walt.

6. Never imms on or off a moving

ing to gnin.

7. Never pluy games 'round the track not the station—

There are much safer places to seek recreation.

# a great many lives can be saved and I fit by it; it includes seven "don'ts"

Is Declared Most Important Development Since the Discovery of the Cyanide Concentration Process Smelter Is Now Set Up and in Operation in El Paso. Some History of Copper Production and Treatment in the U.S. and the Old World.

(Continued from page 1, this section.)

Thoroughness of the Ancients. It was my fortune to have charge, for a number of years, of one of the large waste began. mining and metallurgical concerns in that district, and I had thus the opportunity of studying the methods of our celebrated predecessors in that branch

An enormous quantity of Roman slag is piled up at these mines and it in found by analysis that this slag is as good and free from copper as that produced today in the most up to date Works

Remains of some of their furnaces have been brought to light. These were small reverberatory furnaces, built enfirely of stone and evidently heated

those of us who were to succeed them y to grind them finely and concentrate them, and appliances were borrowed from the gold and tin industries to car-ry that out. This is where all the trouble and Success of Concentration.

Success of Concentration depends on the difference in weight between the valuable mineral and the barren gangue. The difference in weight between the valuable mineral and the barren gangue. The difference in weight between average copper mineral and the barren material is approximately 5 to 31-2, which is sufficient to make a fair separation with careful handling, but unfortunately the mineral always shows a persistant tendency to sime, and fleat off with the tailings, which go to waste.

The New Mexico Loss.

Compare that with the 65 percent recovery obtained by concentrating erude ore in New Mexico, and you will thousands of tons of copper are daily and making a saving of only 65 percent. Where does the other 25 percent go to? Undoubtedly it is lost.

Bears I am a second of the large mines or covery obtained by concentrating erude ore in New Mexico, and you will readily appreciate the advantage to be gained by having copper in the state of metal before concentration is attempted.

The amount of the large mines or covery obtained by concentrating erude ore in New Mexico Loss.

Compare that with the 65 percent recovery obtained by concentrating erude ore in New Mexico, and you will readily appreciate the advantage to be gained by having copper in the state of metal before concentration is at-

markable fact, that in the course of the 2000 years that have elapsed since, the Romans smolted orise in the liberian peninsula, the method employed to recover copper from its oros is substantially the same.

It is frue that by advances in mechanical engineering, improved methods of the farcest works in the contained engineering, improved methods of the farcest works in the contained engineering, improved methods of his farger—blast furnaces before methods of copper, passed that the fact is all.

Ores are smelted by hent and the copper has followed but it must have expensed a very considerable loss. These two examples of such heavy losses in the yellow out of mass folday, just as it was 2000 years ago.

Formerly miners took out only the rich ores and left the poorer ores alone, but as those richer deposits became more and mere scarce, means had to be devised for treating the low grade ores.

The means employed to make these operar ores available for smelting was a standard or smelting for and we can understand why low grade copper mines in the mass of the color. The means employed to make these operar ores available for smelting was a standard or smelting for and we can understand the proof of the grand lodge of Elica and more scarce, means had to be devised for treating the low grade opper mines in the heavy understand why low grade copper mines in the means of the order. The proof of smelting for and we can understand the proof of the grand lodge of the standard or the proof of the order. Many visit is necessary in the slags from the lating formers and the proof of the grand lodge of Elica and the proof of the grand lodge of the standard proof of

this country cannot be made to pay if

Greater Saving in Spain. Greater Saving in Spain.

In southern Spain and Pertugal copper oves containing as little as one-half percent are treated at a considerable profit by weathering the ore, washing out the resulting copper sulphate with water and conducting the copper liquors through wooden canals, in which the copper is precipitated on iron.

This method only recovers the copper, therefore if any gold or sliver is present, some other means has to be devised.

Nature is always ready to teach a lesson to these who have eyes to see, and a remarkable example of this is to be found in the copper deposits of Lake Superior.

Lake Superior Work. Everyone, who takes the least interest in those matters, is more or less familiar with the work being done on large copper deposits in that district. There the gangue is a cellular lava, the cells in which are filled with particles of metallic copper. Some of these particles are large, but many are so small as to be only visible under the microscope.

small as to be only visible under the microscope. While copper mineral is less than five times the weight of water, metallic copper is nine times the weight of water. Burther, the metal cannot elime, as the mineral does, and he carried off with the tallings. Therefore all that the companies operating these couper deposits have to do is to mine the ore, grind it as line as required and separate the conper from the gangue, on concentrators. As the copper has been prepared for concentration by astore, the companies make a recovery of over 90 percent.

The New Mexico Loss.

The question then before metallur-gists is: Can we not devise some means of repeating in a commercial manner

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